capturx™
for ArcGIS® Desktop

Adapx Solutions for Turning Ink into Action!
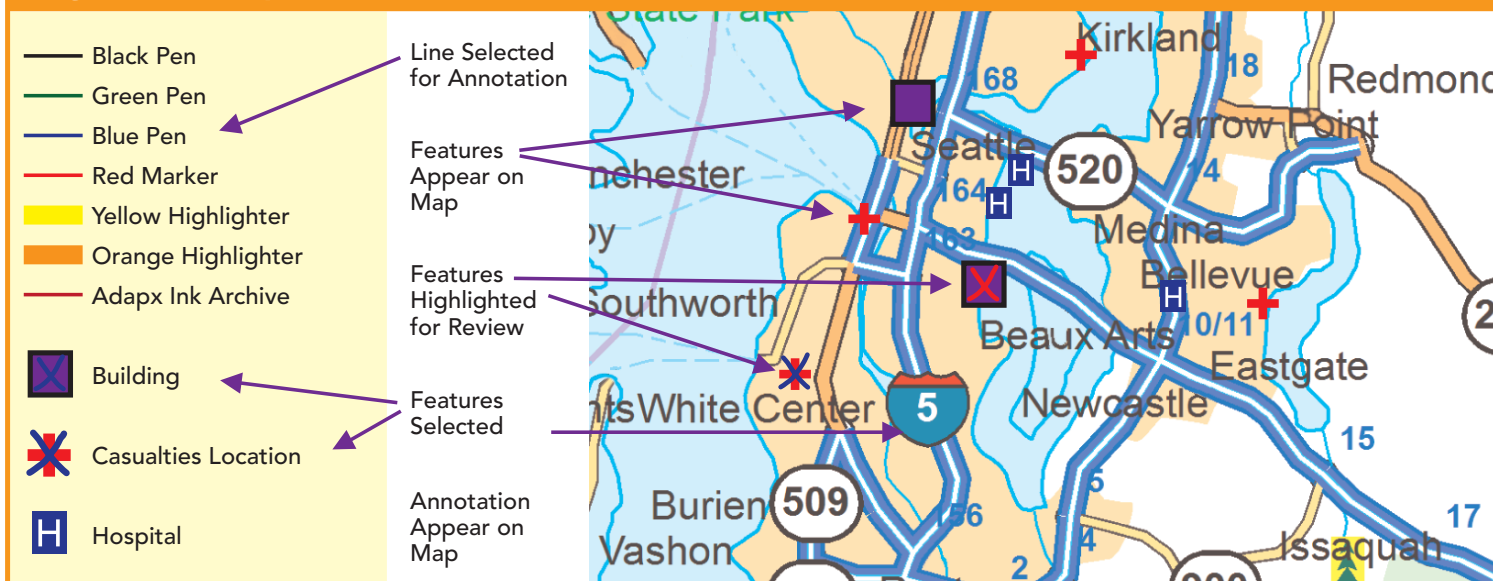
At a Glance
Capturx for ArcGIS® Desktop makes it easy to collect data in the field by using pen and paper to create features and annotations in ArcMap®. Simply select what you want to create from the map's legend and place it on the map by drawing its location. When you connect the pen to your computer, you can review your new feature and then add it to your Geodatabase. What could be simpler?

What is Capturx for ArcGIS
Capturx for ArcGIS is a powerful, easy-to-use, digital data collection solution that enables you to keep using paper maps. If you use ESRI ArcGIS® 9.2, the Capturx for ArcGIS extension is the ideal way to create, import, edit, share and act on paper-based data in and between geographic information systems (GIS).

Capturx for ArcGIS Desktop enables you to print out any ArcGIS map and feature legend on digital paper, and then make changes and annotations to the map in ArcGIS by simply writing on the printed map.

Legend – Adapx Ink Annotation

Black Pen
Green Pen
Blue Pen
Red Marker
Yellow Highlighter
Orange Highlighter
Adapx Ink Archive

Building
Casualties Location
Hospital

Line Selected for Annotation
Features Appear on Map
Features Highlighted for Review
Features Selected
Annotation Appear on Map

Benefits

More portable - The Penx digital pen is far more portable and easier to work with than PDAs and ruggedized laptops; and less expensive to replace.

Improves collaboration - With a Capturx solution, teams can work together better, with information gathered and disseminated in real time. An energy company can route compliance data instantly from the field to multiple departments.

Decreases time to decision - Field work is documented and integrated in near-real time, with perfect accuracy. Field workers can save time processing data by eliminating manual data re-entry or scanning.

Lowers operational costs - Data can be sent instantly from the field, eliminating the cost of travel and administration. Construction companies can speed up invoicing, reporting and cost accounting.

Easy to learn - Personnel work with pen and paper, so there is virtually no training required. The new process is more readily accepted and personnel can go back to work sooner.

Suitable for extreme field conditions - The field-ready digital pen is highly portable, more durable than other devices, and works for up to ten days on a single charge, storing up to 50 pages of content. The digital pen requires no special care when used by inspectors in rugged and hazardous environments and its small size and light weight make it easy to transport.

Requires fewer steps - Data can flow directly from the field to a database, which not only saves time and resources, but reduces errors introduced when information is re-entered manually.

Components of Capturx for ArcGIS

Digital Pen	Using digital paper, the Adapx field-ready Penx writes with regular ink as it captures the writing digitally with an infrared camera, image processor, memory and rechargeable battery.
Digital Paper	Digital paper is any paper that has been imprinted by Adapx Software with a special Anoto® pattern of almost imperceptible dots. Many color, PostScript Level 2 or later printers can print Adapx Digital Paper as needed.
Capturx for ArcGIS Extension	The Capturx for ArcGIS extension prints ArcGIS maps on digital paper that you can use in the field. After you have annotated the maps, Capturx transforms the digital ink stored in the Penx into Geodatabase features in your ArcGIS Desktop application.

How Can I use Capturx for ArcGIS

Keep Using Paper Maps

When you print a map from ArcGIS Desktop using Capturx for ArcGIS, the Anoto pattern is printed under the map as a watermark. In the field, you create new features on the digital paper map with your Penx by selecting items from the legend and placing them on the map. Then, when you upload the data from the Penx, the Capturx extension interprets the digital ink and accurately integrates those features into the ArcGIS map on your computer.

Convert Paper Maps to Digital Maps

When you dock your Penx, Capturx creates a Review Session containing the field data from the Penx. There is no need for manual transcription of the data into the Geodatabase; Capturx accurately geo-locates each feature.

Penx can be personalized to differentiate input from multiple people. Individual Review Sessions are created for each map document and person. By selecting Sessions to view, you can view and share the right information with the right people.

More Power to Paper with Digital Data Collection

Using Capturx for ArcGIS Desktop, you get fully digitized GIS data from paper maps automatically. Because you don't have to change the way you work, you reduce the need for additional training on data collection, importing and editing processes.

Key Features 1.0

Printing	Capturx prints your ArcMap designed map and the digital pen-enabling pattern on plain paper up to A2 (16.5 x 23.4 inches) format.
Designing Your Map and Geodatabase	Place any geodatabase item (points, polylines, and polygons) in your map's legend to collect that type of feature. Adding feature classes with pre-defined attribute values makes the collection more efficient.
Collecting Feature Data	To place a feature on a map, simply mark the feature's icon in the legend, and then mark the location on the map.
Annotating	Scribble critical information on a map with red-line annotations. These markups are also features.
Working Together	Multiple users, each with their own Penx, can simultaneously collect features and markup maps.
Reviewing	After uploading the field data to your ArcGIS Desktop workstation or notebook, you can analyze each new feature. Step through and highlight each addition, and then make any necessary corrections to the field data before committing the ArcGIS Edit Session to your geodatabase.

Capturx for ArcGIS Desktop can be used with any version of ArcMap, including ArcView®, ArcEditor™, or ArcInfo®, and is compatible with multiple data infrastructures, including personal and enterprise geodatabases, such as ArcSDE®.

ADAPX™

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Get Capturx for ArcGIS Now.

Capturx for ArcGIS is available now at **www.adapx.com.**

Product SKU

Capturx for ArcGIS 5-pen pack

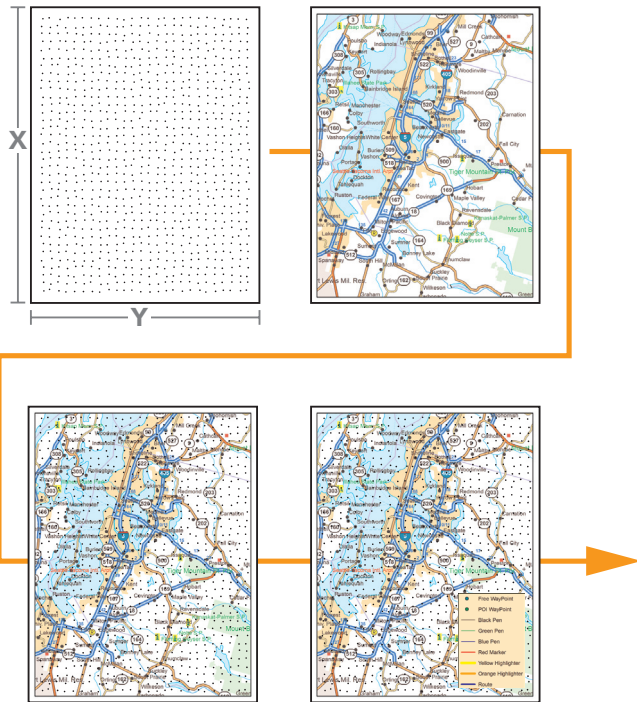|	
Extension License	1 Capturx for ArcGIS extension
Pen Extension Connections	5 (Connect up to 5 Penx to your extension)
Pattern Credits	5 (Entitled to up to 5 shelves of pattern)
Penx Kits	5 digital pens and docks
Capturx for Microsoft OneNote	5 (Install the digital note-taking application for Microsoft Office OneNote on up to 5 computers)
Rite-in-the-Rain digital notebooks	5
Annual Maintenance and Support	1 (First year included)

System Requirements

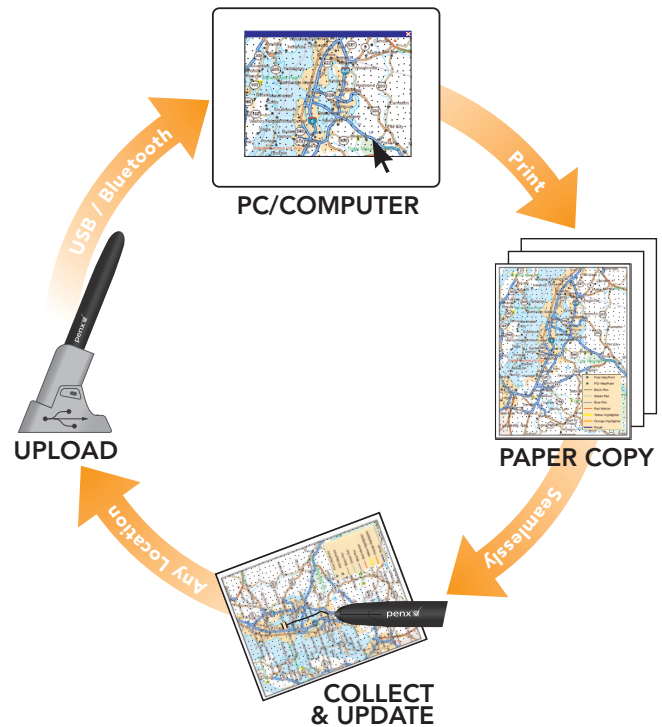| Component	Requirement
Basic	Same qualifications required for prerequisite ArcGIS Desktop 9.2 application http://www.esri.com/software/arcgis/arcinfo/about/systemrequirements.html
Computer & processor	1 to 1.6 gigahertz (GHz) or higher processor, depending on ArcGIS version used.
Bus	USB 1.0 or greater for docking up to 6 Penx simultaneously and any number of Penx sequentially; Penx must be docked at the workstation where the map was printed
Memory	512 megabytes (MB) or higher
Hard disk	12 MB
Drive	CD-ROM or DVD drive for installation
Display	Monitor with 1024x768 or higher resolution; Color depth greater than 256.
Operating system	Microsoft Windows XP with Service Pack 2 (SP2), .NET 2.0 or greater
Printing	Adapx recommends the following configurations when printing with Capturx.
Printers	Qualified color printers (guaranteed performance for the life of the printer): Oki C5400, C6100, C5900, C6100, C9600[1] Tested desktop color laser printers: HP 5550 Large format color printers: HP T1100. For a complete list of printers, go to www.adapx.com/support/ Essential requirements for printers: CMYK color, Postscript Level 2 support, true 600 dpi for laser or true 1200 dpi for ink jet,
Ink	Laser toner or inkjet pigment ink for black (K)[2], traditional dye (CMY) color inks.[3]
Paper	White paper, the brighter the better, medium bond.[4]
Additional	Actual requirements and product functionality may vary based on your system configuration and operating system.
Network	Internet access required for product registration, initial Penx connection and while restocking pattern.

[1]Other model numbers used outside the United States. [2]High absorption in the wavelengths 800-950. [3]Minimal absorption in the wavelengths 800-950. [4]Uncoated with weights > 60 g/m, opacity > 88%, surface roughness, Bendsen (ml/min)between 100-400.

Using Capturx for ArcGIS Extension

Map is Prepared and Printed for Use in the Field

Capturx for ArcGIS Extension Printed Map and Penx in the Field

Downloading the Digital Pattern Used to Make the Digital Paper

- Download the pattern (used to make the digital paper) in the desired size before you print
- Having selected the desired size, use the Capturx for ArcGIS Desktop printing dialog to print the digital paper you will use to print your map
- Open the map you want to update
- Create and place the legend you want to use on the map you have selected

Map is Reviewed Using the Toolbar

Reviewing Your Changes

- Use the Capturx toolbar to review and accept or reject the changes you have made

Using the Pen and Digital Map

- Use digital pen to select the desired icons on the legend and then mark the map to create the features you have selected
- Dock the Pen and Transmit Data
- Attach the docking station to a PC or laptop via the USB Port
- Insert the pen in the docking station to upload the changes you have made it the map
- Use the Penx Control Panel to manage the pan to select the desired upload option
- The features you have selected are uploaded to your computer